

**THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

**QUANTUM TECHNOLOGY
INNOVATIONS, LLC,**

Plaintiff,

v.

AT&T INC.,

Defendant.

CIVIL ACTION NO. 2:24-cv-588

JURY TRIAL DEMANDED

ORIGINAL COMPLAINT

Plaintiff files this original complaint for patent infringement against defendant AT&T Inc. (“Defendant” or “AT&T”) and alleges patent infringement of **U.S. Patent 7,650,376** as follows:

PARTIES

1. Plaintiff is a Texas limited liability company with an office at 1 East Broward Boulevard, Suite 700, Ft. Lauderdale, FL 33301.

2. On information and belief, Defendant AT&T Inc. is a corporation organized and existing under the laws of the State of Delaware, with an established place of business at 1712 East Grand Avenue, Marshall, Texas 75670. On information and belief, AT&T may be served through its registered agent in the State of Texas: CT Corporation located at 1999 Bryan St. Ste. 900 Dallas, TX 75201-3140.

JURISDICTION AND VENUE

3. This action arises under the patent laws of the United States, 35 U.S.C. § 271, et seq. Plaintiff is seeking damages for patent infringement.

4. Jurisdiction is proper in this Court pursuant to 28 U.S.C. §§ 1331 (Federal Question) and 1338(a) (Patents).

5. This Court has personal jurisdiction over Defendant. Defendant has continuous and systematic business contacts with the State of Texas. Defendant transacts business within this

District and elsewhere in the State of Texas and has appointed an agent for service of process in Texas. Further, this Court has personal jurisdiction over Defendant based on its commission of one or more acts of infringement in this District and in the State of Texas.

6. Venue is proper in this District as to Defendant pursuant to at least 28 U.S.C. §§ 1391(c)(2) and 1400(b). As noted above, Defendant maintains a regular and established business presence in this District.

ACCUSED INSTRUMENTALITIES

7. Defendant's content delivery network ("CDN") that facilitates a geographically distributed network of edge servers or Points of Presence (POPs) to provide immediate content access for the end users.

PATENTS-IN-SUIT

8. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

9. Plaintiff is the sole and exclusive owner, by assignment, of U.S. Patent No. 7,650,376 (hereinafter referred to as "the '376 Patent" or "the Patent-in-Suit"). The '376 Patent is attached as **Exhibit A**.

10. The Patent-in-suit is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.

11. QTI is the owner of all right, title, and interest in the Patent-in-Suit, including the right to sue for past, present, and future infringement thereof and to collect damages for any such past, present, or future infringement. The inventions disclosed and claimed in the '376 Patent comprising, inter alia, distribution of media content via a decentralized computer network, provide numerous benefits over any prior methods, systems, apparatuses, and/or computer-readable media.

A. Overview Of The '376 Patent.

12. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

13. The '376 Patent is titled "Content Distribution System for Distributing Content Over a Network, with Particular Applicability to Distributing High-Bandwidth Content." U.S. Patent Application No. 09/774,700, filed on November 20, 2000, and which issued on January 19, 2010, as U.S. Patent No. 7,650,376, claims priority to U.S. Provisional Patent Application No. 60/192,165 filed on March 27, 2000.

1. Overview of the Prosecution of the '376 Patent.

14. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

15. During prosecution of the '376 Patent, on December 2, 2005, the patent examiner issued a Non-Final Rejection, rejecting then-pending claims 1-20, 22-25, 27-33, and 35-123 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 5,956,716 to Kenner et al. ("Kenner") and rejecting then-pending claims 21, 26, and 34 under 35 U.S.C. § 103(a) as being obvious in view of Kenner.

16. On March 2, 2006, the applicant amended the claims and argued that the cited Kenner reference did not render the claims, as amended, unpatentable.

17. With regard to the rejections under 35 U.S.C. §§ 102(e) and 103(a), the applicant noted in its response to the patent examiner's rejection that conventional Kenner did not teach, suggest, nor render obvious "... communicating to a client the identity of a node server having . . . specified content stored thereon, thereby enabling the client to request transmission of the specified content from the node server," as recited in Claim 1." The applicant further noted that conventional Kenner did not teach, suggest, nor render obvious that "an owner of the node server [is] offered an incentive as compensation for transmission of the specified content to the client, as recited in Claim 1."

18. On June 1, 2006, the examiner issued a Final Rejection maintaining the rejection of then- pending claims 1-20, 22-25, 27-33, and 35-123 under 35 U.S.C. § 102(e) as being

anticipated by Kenner and then-pending claims 21, 26, and 34 under 35 U.S.C. § 103(a) as being obvious in view of Kenner.

19. On December 1, 2006, the applicant filed a request for continued examination (“RCE”). As part of the RCE filing, the applicant, without amending the claims, reiterated the previous arguments that the cited Kenner reference did not render the claims, as previously amended, unpatentable. At the same time, the applicant added additional claims 124-127.

20. In regard to the rejections under 35 U.S.C. §§ 102(e) and 103(a), the applicant noted in its response to the patent examiner’s rejection that conventional *Kenner* neither teaches, suggests, nor renders obvious “‘ascertaining that [a] node server transmitted...specific content to [a] client,’ as recited in Claim 1.” Further, the applicant specifically noted that the examiner failed to address the specific highlighted differences the applicant noted between the claimed invention and *Kenner*.

21. On February 23, 2007, the examiner issued a Non-Final Rejection maintaining the rejection of then-pending claims 1-20, 22-25, 27-33, and 35-127 under 35 U.S.C. § 102(e) as being anticipated by *Kenner* and then-pending claims 21, 26, and 34 under 35 U.S.C. § 103(a) as being obvious in view of *Kenner*.

22. On August 23, 2007, the applicant filed a response and, without amending the claims, reiterated the previous arguments that the cited *Kenner* reference did not render the claims, as previously amended, unpatentable. The applicant, again, specifically noted that the examiner failed to address the specific highlighted differences the applicant noted between the claimed invention and *Kenner*.

23. On April 25, 2008, the examiner issued a Non-Final Rejection, now rejecting all of then-pending claims 1-127 under 35 U.S.C. § 103(a) as being obvious in view of *Kenner* and U.S. Patent No. 5,956,716 (“*Guenthner*”).

24. On August 25, 2008, the applicant filed a response and, without amending the claims, argued that the cited combination of *Kenner* and *Guenthner* did not render the claims unpatentable, nor would it be obvious to combine these references.

25. With regard to the rejection under 35 U.S.C. § 103(a), in addition to reiterating the applicant's prior arguments relating to conventional *Kenner*, the applicant noted that neither conventional *Kenner*, nor conventional *Guenthner*, alone, or in combination teach, suggest, nor render obvious “communicating to [a] client the identity of a node server having...specified content stored thereon,’ as recited in Claim 1. The applicant further noted that “any teaching, whether by *Guenthner* et al. or anyone else, regarding [this limitation], would be of no use and incompatible with the invention taught by *Kenner* et al., and thus it would not be obvious to combine such teaching with the teaching of *Kenner* et al. to produce an invention as recited in Claim 1.”

26. On February 4, 2009, the examiner issued a Final Rejection, rejecting then-pending claims 35-38, 40-55, 57-76, 95-111, 113-120, 122-123, and 125-127 under 35 U.S.C. § 103(a) as being obvious in view of *Kenner* and *Guenthner*, and rejected claims 39, 56, and 112 as being dependent upon rejected base claims. The examiner allowed then-pending claims 1-34, 77-94, 121, and 124.

27. On March 2, 2009, the applicant filed a response, canceling then-pending claims 35-38, 40-55, 57-76, 95-98, 100-111, 113-120, 122-123, and 125-127, amending claims 39, 56, 99, and 112, and adding additional claims 128-192, and argued that the then-pending claims, as amended and added, were not unpatentable in view of *Kenner* and *Guenthner*.

28. On March 17, 2009, the examiner issued a Non-Final rejection, rejecting then-pending claims 128-160 under 35 U.S.C. § 112, ¶ 1, as containing subject matter not properly described in the specification and rejecting then-pending claims 1-34, 39, 56, 124, and 128-160 under 35 U.S.C. § 112, ¶ 2, as being indefinite. In this Non-Final rejection, the examiner also rejected then-pending claims 1-34, 39, 56, 121, 124, and 128-192 under 35 U.S.C. § 101 as being directed to non-statutory subject matter.

29. On June 17, 2009, the applicant amended the claims and argued that the claims, as amended, overcome the rejections under 35 U.S.C. §§ 101 and 112, ¶¶ 1 & 2.

30. In regard to the rejections under 35 U.S.C. § 101, the applicant noted in its response to the patent examiner's rejection that the rejected claims were amended “to make clearer that [those

claims] recite apparatus (that includes a core server and can further include a node server and/or client) and therefor recite statutory subject matter.

31. In regard to the rejections under 35 U.S.C. § 112, ¶ 1, the applicant noted in its response to the patent examiner's rejection that "the description throughout [the] specification of the functions performed by the receiver and transmitter recited in [the] claims...inherently disclose [those features] and, consequently, the receiver and transmitter recited in [those claims] meet the requirements of the first paragraph of 35 U.S.C. § 112. In regard to the rejections under 35 U.S.C. § 112, ¶ 2, the applicant noted in its response to the patent examiner's rejection that the claims were amended "to make clearer that [the claims] recite apparatus: those claims now include recitations that the apparatus include a core server and can further include a node server and/or client."

32. The United States Patent and Trademark Office patent examiner, after receiving supervisor approval, issued a notice of allowance on August 24, 2009, and the USPTO issued the '376 Patent on January 19, 2010.

2. Overview of the Unconventional '376 Patented Inventions and the Conventional Technology at the Time.

33. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

34. At the time of the '376 Patent inventions reflected in the issued claims (the "patented inventions"), the main method of video content distribution was through the television. Distribution of video content online was very limited and suffered from many issues, including limitations due to bandwidth and feature set. '376 Patent/1:57-66. In either of the television or online distribution systems, the content was provided via a broadcast model wherein the content provider would transmit the content to any user or client that was connected to the content provider. In the conventional television broadcast model, any content was only required to be sent a single time, and all clients (*e.g.*, receivers) would receive the content at the same time. However, where the clients interacted in a staggered fashion (*i.e.*, connected at differing times to request the same

content), the asynchronous nature of such content delivery reduces the content provider's ability to consistently operate within its resource limits. The best method of providing an asynchronous or on-demand viewing experience at the time was through video tapes (*e.g.*, VHS), CDs, and/or DVDs.

35. Notably, distribution of content online differed from television distribution in this way, including that the number of users or clients connecting to the content provider could vary much more quickly, including that the times the users or clients may connect were not limited to the specific times that content was set to be provisioned as in the television systems. An example of conventional architecture, where a user or client connected to the content provider, is exemplified in the figures of U.S. Patent No. 6,505,240 to Blumenau ("Blumenau") cited in the specification of the '376 Patent:

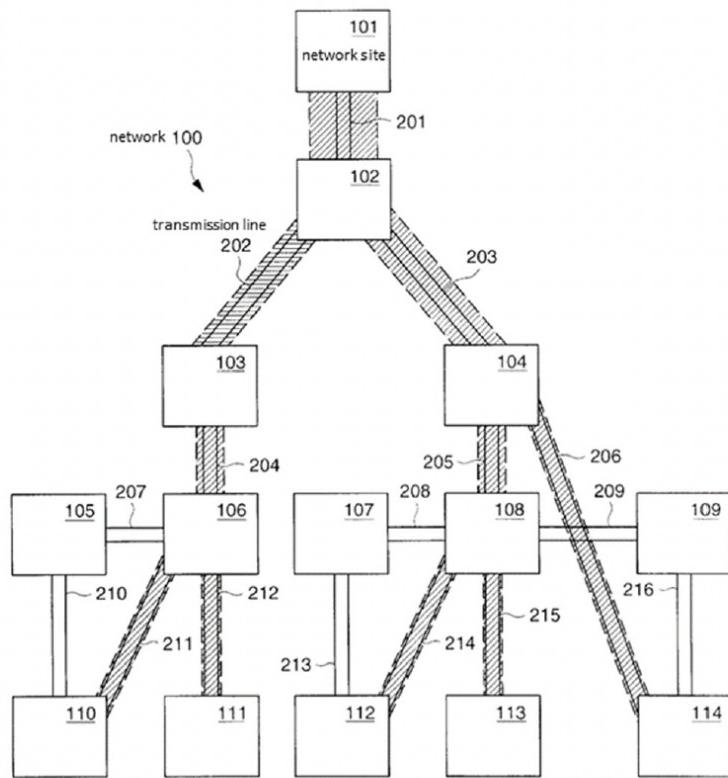


FIG. 2

Blumenau at Fig. 2; see also Blumenau at Figs. 1 & 3; 4:31-6:57.

36. Provision of content over a network, including provision of video content to multiple clients, if done at all, was typically a slow, arduous, and unpredictable process which could be cumbersome and time consuming, if at all possible, including because each client that connected to the content provider resulted in additional bandwidth usage as the full content of the web site, including any high-bandwidth content (*e.g.*, video content, 3D images, etc.), was transferred at the time the client first connected. '376 Patent/3:65-4:2 & 4:13-20. Neither the content provider nor the client could choose the time the content was transferred other than by choosing when the client connected to the content provider. Further, neither the content provider, nor the client, could choose specific content to be transferred, but, rather, all of the content on the web site was transferred upon the client connecting to the content provider. Including because of the foregoing, it was particularly difficult for content providers to manage the provision of content to large numbers of clients or the provision of multiple pieces of video content. Moreover, it was especially difficult, if not impossible, for content providers to manage the provision of multiple pieces of video content to large numbers of clients. In some situations, such as accessing websites between countries, these limitations simply made provisioning high-bandwidth content impossible.

37. In such cases, the content provider would be limited by the resources available to it, including, *inter alia*, the bandwidth of the network between the content provider and client and the hardware and software of the content provider's server that is managing the provisioning of content. '376 Patent/1:57-66; 3:65-4:2; & 4:13-20. Further, as the data size of the content increased, these limitations would become limiting, resulting in exponential degradations in, *inter alia*, transfer speeds and increasing the likelihood of the content provider's hardware and/or software crashing or otherwise ceasing to transfer data to any number of clients. '376 Patent/1:57-66; 3:65-4:2; & 4:13-20. Thus, content providers were required to limit the number of videos, and/or the data size of each video, in order to operate within these limitations and attempt to ensure reliability of the transfers to clients and scalability of systems. '376 Patent/1:57-66.

38. Generally, conventional video content distribution systems were developed as similar broadcast models based on the television distribution systems, including seeking to

distribute advertisements as interstitial breaks in online video content. However, while systems existed which permitted the provision of content over a network, those systems were limited by the bandwidth available to the networks used. '376 Patent/1:28-29. Specifically, where the content being transmitted was high-bandwidth content (*i.e.*, content requiring large data transmission rates relative to the network bandwidth capabilities), these systems struggled to provide consistent user-experiences, if at all. '376 Patent/1:28-2:4. One such type of high-bandwidth content was, and continues to be, video content. '376 Patent/1:30-39. Video content is typically data intensive, and higher quality videos comprise more data and, thus, require more bandwidth. '376 Patent/1:57-59.

39. At the time of the '376 Patent inventions, provision of video content was very limited, and existing systems were unable to deliver full video streams to large audiences. '376 Patent/1:59-63. Rather, in conventional systems, any video content delivered was limited to very low resolutions, very short length clips, and very low frame rates in order to reduce the data requirements of the video so that the bandwidth limitations could be met. '376 Patent/1:63-2:2. Further, even where conventional systems were able to provide these reduced data size videos, the delivery of these videos was not customizable to, or selectable by, the user. '376 Patent/2:2-4. Instead, the videos were made a static part of the web site to be transmitted to every user or client that accessed the web site, and neither the time of delivery nor content delivered could be altered. '376 Patent/2:2-4.

40. At the time of the '376 Patent inventions, the most common, conventional, and practical way to provision content to multiple clients was simply to reduce the amount of content to provision by limiting what is shown on a single page, including by creating hierarchies of links to section off content into multiple areas, requiring users to cumbosomely navigate the content provider's web site, often resulting in having to wait for web pages to reload again and again as they browsed through the link hierarchy. Further, at the time of the '376 Patent inventions, the most common, conventional, and practical way for clients to choose when any content was transferred was to either specifically time when they connected to the content provider or to determine a way to copy the content to the client device for viewing later – the latter often involving its own issues

such as copyright infringement or broken content due to the way the web site was programmed and was often limited by the resources of the client devices, which typically included much less storage space than the servers of content providers. At best, conventional systems would only distribute portions of the video while the connection was reliable, which were almost always unviewable without the remaining portion of the video. The claimed inventions of the '376 Patent improve the functionality, efficiency, and reliability of network content distribution systems as described herein, including by eliminating the need for the content provider to heavily invest in infrastructure, hardware, software, and/or other resources, including by providing for the use of a distributed system of third-party-owned node servers, including as described in the '376 Patent.

41. The "SUMMARY" section of the '376 Patent states, in part, as follows:

In accordance with the invention, the distribution of content (in particular, data intensive content such as video content) by a content provider over a network (*e.g.*, a computer network such as the Internet, a television network) is facilitated by making use of network site(s) throughout the network to dispense some part or all of the content on behalf of the content provider to network site(s) that desire to receive the content. In particular, the invention can be used to facilitate the distribution of content over a network by recruiting network site(s) to act as volunteer server(s) for dispensing content on behalf of the content provider. The invention can be used, for example, to facilitate the distribution of a single set of high-bandwidth content, *e.g.*, facilitate distribution of video content over the Internet. The invention can also be used, for example, to facilitate the distribution of multiple sets of content at the same time, *e.g.*, facilitate distribution of customized content to different content users.

'376 Patent/2:8-24.

42. The '376 Patent claimed inventions have advantages over conventional systems and methods, including that they allow multiple pieces of content to be distributed to numerous client devices asynchronously and/or on-demand, including via the use of a distributed system of devices containing the specified content. '376 Patent/3:23-4:33. In some embodiments, this includes the use of distributed node servers owned by third parties separate from the owner of the core server

(i.e., the content provider) such that the node servers are more closely located to client devices. '376 Patent/3:23-4:33. To the contrary, conventional systems were operated under the assumption that a pure server client system was feasible. However, as noted herein, these systems failed to scale with larger numbers of clients, especially when delivering high-bandwidth content. An updated infrastructure and architecture was needed, and the '376 Patent inventions provide such systems and methods which solve these problems.

43. Including as of the priority date of the Patent-in-Suit, there have been various, albeit vastly inferior, means outside of the claimed invention for achieving the ends of provisioning of high-bandwidth content over a network, including on the Internet. Including as noted herein, at the time of the '376 Patent inventions, conventional approaches to delivering content in a scalable and reliable way to multiple clients were limited. Conventional approaches sought to solve the ongoing problem of limited resources, including bandwidth and hardware and/or software, which limited a content provider's ability to provide high-bandwidth content, including video content at longer lengths, higher frame rates, and/or higher resolutions, and provide content asynchronously and/or on-demand to large numbers of client devices. '376 Patent/1:28-2:4. These approaches included local clustering of servers in a single location; deploying clusters in a few locations and synching or mirroring the clusters; and/or using multiple internet service providers ("ISPs") to connect to the Internet (referred to as "multihoming"). '376 Patent/1:40-56. While each of these approaches address some parts of the noted limitations, they also introduce additional limitations, including additional requirements in order to provide necessary excess capacity.

44. The use of clustering required the content provider to pre-determine the amount of traffic it would expect and provide a sufficient number of servers to handle that load (which can be an order of magnitude above average loads). Further, the average bandwidth required to handle a traffic load is typically not an amount close to the maximum bandwidth that would be required at any given time. This, in turn, required heavy investment by the content provider as the amount or scale of the servers increases, meaning the content provider was required to pay for additional hardware and/or software as well as the maintenance costs therefor. Notably, at the time, the

convention was not to have idle bandwidth available because the enormous expense of bandwidth meant such idle bandwidth was money wasted.

45. Where clusters were used with mirroring, not only are these same issues present, but additional issues of maintaining a reliable mirror so that each cluster is identical become exponentially apparent. In other words, to provide a consistent web experience to users, the content provider was required to constantly monitor the remote clusters to ensure any changes made at the main server were properly and reliably propagated. Additionally, even with the use of remote, mirrored clusters, each of these clusters would still be required to be able to handle the full expected traffic load.

46. For the multihoming approach, while this would potentially increase bandwidth available by providing more physical links between the content provider and client devices, there was no guarantee which of the links was used nor that, if any of the links, or connections thereon, became overwhelmed, clients would be redirected to a different, less congested link, if at all. Regardless of the amount of links, any given connection between the content provider and a client device would still be subject to limitations of that specific connection. As a result, although the content provider may have multiple links, each link, and each connection thereon, would still need to be able to carry the entire expected traffic load.

47. Thus, in each of these approaches, the content provider would be subjected to a considerable cost, which was often over double the average initial infrastructure expense and ongoing operation costs. These approaches also required the content provider to make wild predictions about its initial and future traffic in order to properly scale. As a result, only the larger content providers were able to even attempt to implement these approaches, meaning the vast majority of content providers simply did not do so.

48. A distributed, scalable third-party-owned node server-based systems, including the inventions described in the '376 Patent, avoids and/or addresses these issues by providing a means for the content provider to distribute and scale its system. The content provider's system is distributed by using already-existing servers owned by third parties which could be incentivized

to permit the content provider to employ these third parties' resources (e.g., network bandwidth and server hardware and/or software) for less cost, while offloading the investment and maintenance costs to those third parties. '376 Patent/7:12-34; 10:17-53; 11:1-19; 14:61-15:9; & 22:13-20. The content provider's system is scalable via the ability to easily add additional incentivized node servers to the network to aid in distributing the content, including that each client that has obtained specified content may then be used as an additional node server for provision of that same content to additional clients. '376 Patent/19:66-20:63.

49. Prior art methods for provisioning content over the Internet were likewise inferior. Including as noted herein, back at the time of claimed inventions, distribution of content over networks, including the Internet, were almost entirely via a pure server-client architecture with the central or "core" server handling all communications with any client devices, including as exemplified by the Kenner patent and ancillary prior art addressed extensively during prosecution of the '376 Patent. As noted by the inventor during prosecution, the client devices of Kenner (i.e., user terminal) communicated only with the server (i.e., PIM) and the server never communicated an identity of any other entity (i.e., DSI) so that the client could request the transmission of the specified content from that other entity rather than the server. The claimed inventions improve and build on this, including because, as noted by the inventor during prosecution, the claimed invention comprises an architecture that provides advantages over these prior art systems, including by permitting client devices to be served by node servers with better and/or more available resources and/or that are more closely located to the client. According to the inventor, this architecture results in, *inter alia*, a vastly improved functionality, efficiency, and reliability of content distribution.

50. Further limitations on network and Internet availability existed at the time, where broadband was in its infancy, and certainly not widespread, with the vast majority of Internet connectivity being achieved through slow, unreliable dial-up networking over phone lines, meaning most Internet users were unable to simply leave a device connected without losing the availability of a phone line. Thus, the expectations of one's network services being available to a computer at the time were often insufficient to reliably support continuous connectivity and high

bandwidth network activity. Similarly, for mobile devices, mobile data and internet connectivity were not as ubiquitous as they are today, and certainly much less able to provide continuous connectivity to permit a user to wait bandwidth to be available. At that time, a user would be motivated to minimize mobile data usage because of high cost and limited bandwidth. Thus, Internet users, both at home and mobile users, sought websites that were quick and easy to load and which provided the user with the best desired content without using a lot of bandwidth. As a result, including as noted, it was conventional to provide low data content that was statically delivered from a central core server, including by reducing the quality of content to reduce data size and creating hierarchical links so that specific content could be delivered independent of other content, rather than across a distributed third-party-owned node server architecture. '376 Patent/1:57-2:2.

51. As a result, as noted herein, for those conventional systems, which only provided reduced quality content, these resource limitations were less problematic due to the reduced resources necessary to store and deliver the content to client devices. Even for those limited number of conventional systems which employed conventional approaches to addressing these resource limitations, these conventional systems did not fully alleviate the limitations and, in fact, introduced additional limitations which otherwise reduced scalability and reliability of the delivery of content to client devices. Thus, due to these limitations, the convention for the provision of content over networks was, at best, to either cause the data to be so small that it was of poor quality or brute-force the content by throwing costly bandwidth, hardware, and software at the problem. The '376 Patent inventions are unconventional in this regard because they went against the conventional method of creating a self-owned ecosystem of bandwidth, hardware, and software to attempt to permit the delivery of high-bandwidth content to multiple clients asynchronously and/or on-demand, and, instead, provides a method of employing already-existing node servers owned by third-parties which provide specified content to only a subgroup of client devices, thus allowing the core server to act as a traffic director, redirecting client devices to a more local node server with its own bandwidth, hardware, and software used to deliver the content to a client device at

the specific time the client device requests the content. '376 Patent/4:8-24; 5:39-44; 12:48-54; 13:63-67; 19:23-33; 19:48-65; 21:4-43; & 23:1-24:40.

52. Conventional systems had limited ability, if any, to deliver specified content to client devices asynchronously and/or on-demand. '376 Patent/2:2-4; 3:61-4:33. Including as noted herein, the provision of statically available content meant that client devices were simply provisioned all of the content that was on a website upon connecting to the website. This, in turn, meant that, for users to ensure they were able to view the specific content they wanted to view, they would have to wait for the entire website to load to see if that specific content loaded as well. Due to limitations at the time, most content was unviewable until the entirety of the content was received, or, if the portion was viewable, the user was left with only a portion of the content. As a result, the content provider's server would be forced to use the same amount of bandwidth for each client device and for the full amount of time the client device was connected, until the full website was delivered to the client device. Specifically, conventional systems had limited ability, if any, to easily and seamlessly permit client devices to pick and choose what content they were delivered. At best, conventional systems limited the content delivered by requiring users cumbersomely click through a series of links until they reached a webpage that only transferred the specific content they sought. As a result, while this, at least partially, addressed the on-demand nature of content delivery, this necessarily increased the time the client device was required to remain connected and increased the bandwidth and other resource usage of the content provider because the client device was required to access many more webpages, each of which would be required to be delivered to the client device so that the user could navigate to the proper link.

53. With the unreliable Internet of many client devices, conventional systems were cumbersome, burdensome, and hard to use, including because, while a user was waiting for the specified content to be delivered with the entire website, the connection may fail, requiring the user to have to refresh the page and start over. This would, in turn, further unnecessarily increase the bandwidth and other resource usage of the content provider. Similarly, if the content provider's resource limits were reached, the system may crash and/or restart, meaning each of the connected

client devices would then attempt to reconnect, and continue crashing the system or, at a minimum, further increase the bandwidth and other resource usage of the content provider. For those systems with hierarchical links, these connectivity issues were, at best, partially alleviated, as the client device was still required to remain connected to the content provider while browsing the link hierarchy and until the specified content was fully delivered.

54. However, by using the network-based methods and systems described in the '376 Patent, these resource limitations could be offloaded onto a number of node servers, increasing both the reliability of the system, as well as the number of concurrent client devices that could connect and access specific content. In this way, the connected time for any individual server and network was reduced, thus reducing the resource usage of that server and network. This is due to the innovative node-server based operation of the '376 patented inventions. '376 Patent/Figs. 1 & 2; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62. System 100 provides an exemplary illustration of the foregoing architecture, including core server 101, node servers 102, and clients 103. '376 Patent/Fig. 1; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62.

55. Among other things, the inventor of the Patent-in-Suit wanted to deliver high-bandwidth content over a network, such as the Internet, in a reliable and scalable way such that any number of client devices would be able to access specified content offered by the content provider while reducing, or eliminating, issues related to limitations on bandwidth and other resources, including those noted herein. As noted in the specification, “[a]n ongoing problem for content delivery networks is the delivery of high-bandwidth content in a satisfactory manner[, and] delivering full video streams to large audiences (or similar network) so far has been impossible[, where e]xisting systems for delivery of video streams over the Internet suffer from undesirable limitations.” '376 Patent/1:28-29 & 1:59-63. As further noted in the specification, while some distribution does occur, that content is of low quality, including limited pixel resolutions, short lengths, small frame sizes, and/or low frame rates, and “those Web sites have not delivered customized content (in terms of either the time of delivery—i.e., video on demand—or the actual content delivered.” '376 Patent/1:63-2:4. Thus, according to the specification, a system was

needed “to facilitate the distribution of content over a network” as, inter alia, “a single set of high-bandwidth content” or “multiple sets of content at the same time.” ’376 Patent/2:8-24; see also ’376 Patent/3:23-4:33. However, including as noted herein, existing technology offered only unacceptably inferior solutions of provisioning such content to users via the Internet.

56. In one embodiment, the '376 Patent inventions comprise core server 101 in communication with each node server 102 and each client 103, all of which are interconnected to form a network via physical (topological) connections, for example, such as the exemplary system shown in Figure 1 of the '376 Patent:

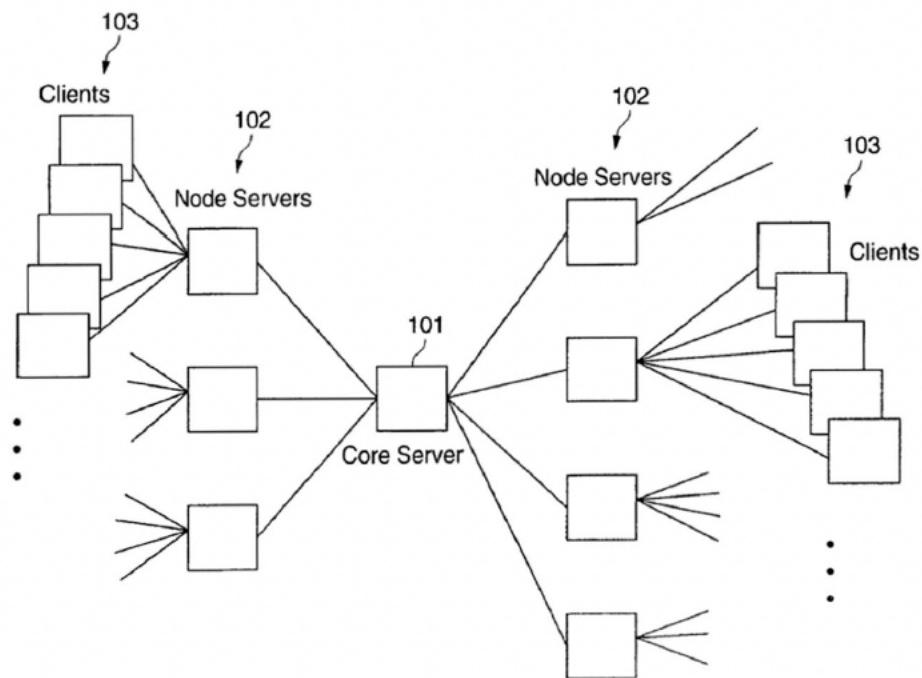


FIG. 1

¹376 Patent/ Fig. 1; see also 5:5-21; 7:12-8:16; 10:17-23; 10:38-67; & 13:37-62.

57. Core server 101 comprises a network site that is controlled (at least in part) by an entity (e.g., a content provider) desiring to distribute content to clients 103 for use on the clients 103. '376 Patent/3:33-42; 7:12-45. Any or all of these devices may be embodied by any hardware compatible with the network, such as a stationary computer (e.g., desktop, workstation, etc.),

portable computers (e.g., laptop, handheld, personal digital assistant, etc.), portable telephone (e.g., cellular phone, etc.), and television. '376 Patent/7:14-28; 7:46-8:16; 10:38-67; 13:29-62. Further, core server 101 may comprise a single server or a combination of servers working in tandem, including any combination of hardware, software, and/or firmware. '376 Patent/5:17-21; 7:46-67.

58. Core server 101 communicates with node servers 102, wherein node servers 102 comprise network sites that are not part of core server 101 and serve as an “army” enlisted by core server 101 to aid in distributing content to clients 103. '376 Patent/10:17-23. Further, node servers 102 may comprise server systems owned by entities other than the content provider, as well as personal computers of individuals or families. '376 Patent/10:38-11:38. Node servers 102 may further comprise a hierarchy of primary node servers and secondary node servers, wherein the hierarchy additionally assists in distributing the load amongst the clients. '376 Patent/12:16-47; 20:15-40. Because the distribution of high-bandwidth content by a content provider would necessarily overwhelm the limited resources of a more centralized server architecture, especially when inundated with communication from a large number of users, the multiple servers set up, including various role specific sub-servers, would further assist in handling such large amounts of communication, including over the minimal bandwidth at the time. '376 Patent/1:49-56; 2:8-24; 3:61-4:33; 10:24-37; 10:54-58; 13:15-36; 18:24-27; 19:19-22.

59. Including as described in the '376 Patent, in order to implement the unconventional architecture of the '376 patented invention, exemplary method 200 is provided, which details the various steps of communications, instructions, and requirements between core server 101, node servers 102, and clients 103. '376 Patent/Fig. 2; 5:22-7:11; 23:1-24:40. The steps are performed in a relative order, including as shown in Figure 2 of the '376 Patent.

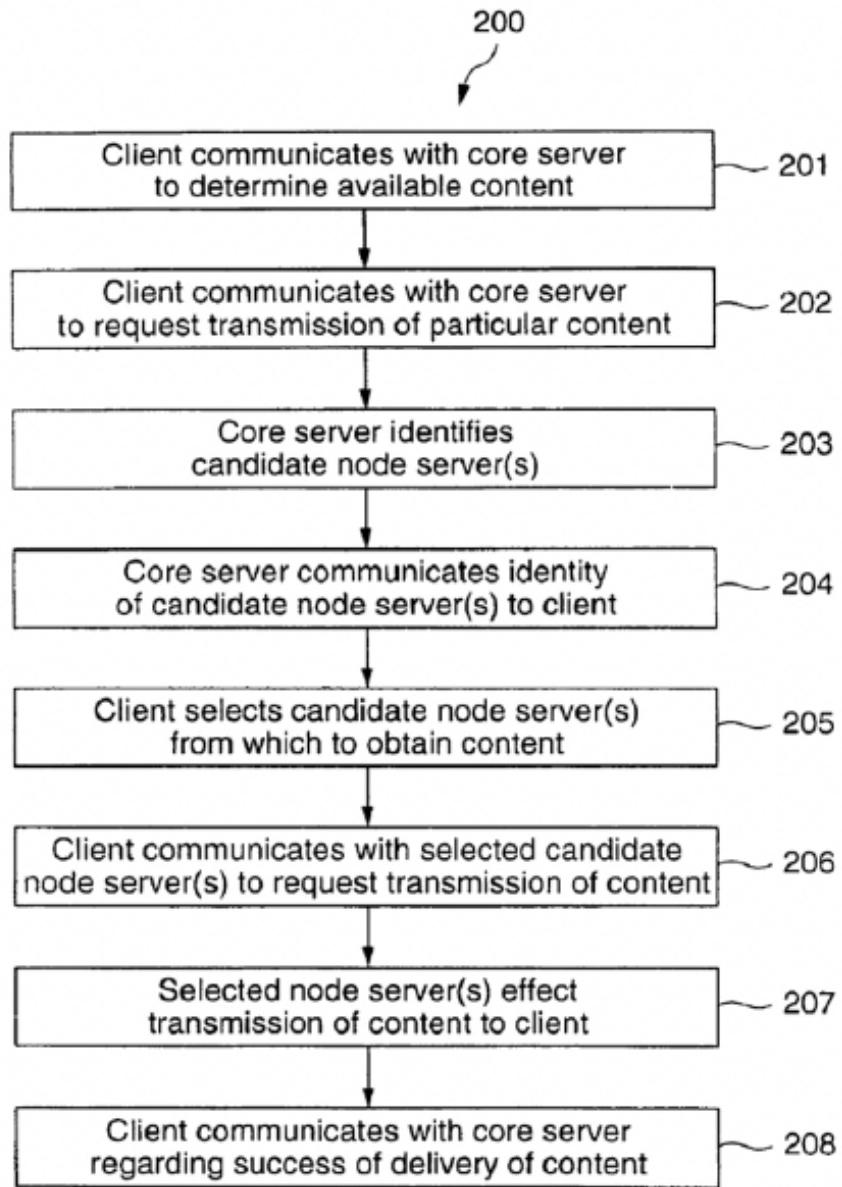
**FIG. 2**

Exhibit A, '376 Patent, Fig 2; *see also* '376 Patent/5:22-7:11 & 23:1-24:40.

60. At step 201, any one of clients 103 communicate with core server 101 to request the identities of any node servers 102 that contain specific content that the user wishes to view, such as a list of movies available. '376 Patent/Fig. 2; 5:30-37; 8:47-50; 13:63-14:10; 17:49-52; & 23:1-24:40.

61. At step 202, any of connected clients 103 request content sought by the user. '376/Fig. 2; 5:38-39; & 13:63-14:10; & 23:1-24:40. Additionally, when client 103 requests the specified content, client 103 may also provide information regarding a specific time that client 103 wishes to receive the content. '376 Patent/Fig. 2; 5:39-44; 12:48-54; 13:63-67; 19:23-33; 19:48-65; 21:4-43; & 23:1-24:40.

62. At step 203, core server 101 identifies various node servers 102 containing the specified content. '376 Patent/Fig. 2; 5:45-51; 9:13-19; 16:58-64; 14:18-25; 17:49-67; & 23:1-24:40. As part of the determination of relevant node servers 102, core server 101 may consider certain aspects of node servers 102, including network topology, available resources, and/or proximity of each potential node server 102 in relation to client 103. '376 Patent/Fig. 2; 5:51-64; 16:4-17:38; 18:1-39; & 23:1-24:40. These characteristics may be stored in a database located on core server 101. '376 Patent/Fig. 2; 5:51-57; 6:11-14; 9:1-19; 16:4-17:38; & 23:1-24:40. Further, by considering these characteristics of potential node servers 102, certain advantages of the patented invention are apparent, including that delivery of content from node servers 102 more proximately located to client 103 may avoid bottlenecks in the network and reduce the costs of transmitting the content. '376 Patent/5:64-6:11; 19:34- 47; & 23:1-24:40.

63. At step 204, after determining the identity of viable node servers 102, core server 101 communicates with client 103 to transfer the identity, for example, the network address or IP address, of the chosen node servers 102. '376 Patent, Fig. 2; 6:15-18; 7:1-11; 7:49-52; 8:50-57; 14:18-25; 17:50-54; & 23:1-24:40.

64. At step 205, client 103 determines which of the identified node server 102 from which to obtain the specified content, including by considering topological and other characteristics of node servers 102. '376 Patent, Fig. 2; 6:19-29; 14:18-25; 18:54-20:14; & 23:1-24:40. Notably, this step may be combined with step 204 so that only core server 101 makes the determination and identification of node server 102. '376 Patent, Col. 7:6-9; 8:60-67; & 23:1-24:40.

65. At step 206, client 103 initiates a connection to selected node server 102 and requests node server 102 begin transmitting the specified content. '376 Patent, Fig. 2; 6:30-35; 7:1-11; 14:61-64; 20:64-66; & 23:1-24:40. The request from client 103 may include the identification of the specified content, as well as a specific time client 103 wishes to receive the content, whether immediately or at a future time. '376 Patent, Fig. 2; 5:39-44; 6:30-35; 12:48-54; 13:63-67; 19:23-33; 19:48-65; 21:4-43; & 23:1-24:40. Further, if step 204 and step 205 are combined, step 206 may be modified so that core server 101, rather than client 103, contacts node server 102 to instruct node server 102 as to the content sought and any scheduled time. '376 Patent/Fig. 2; 7:9-11.

66. At step 207, selected node server 102 begins transmitting the content to client 103 if the user has chosen to have the content received immediately. '376 Patent/Fig. 2; 6:36-51; 12:48-54; 21:4-8; 21:23-26; & 23:1-24:40. Otherwise, if the user has chosen to receive the content at a future time, node server 102 delays transmission until both client 103 is connected and the scheduled time occurs. '376 Patent/Fig. 2; 6:34-51; 12:64-13:14; 20:64-21:58; & 23:1-24:40. Additionally, in the event node server 102 no longer stores the content at the time the delivery is scheduled, node server 102 may direct client 103 to another known node server 102 that does have the content. '376 Patent/Fig. 2; 6:45-51 & 23:1-24:40. Node server 102 may also redirect client 103 if node server 102 determines a more efficient node server 102 exists, such as by considering the noted characteristics above. Exhibit A, '376 Patent, Fig. 2; 6:45-51; 18:58-65; 19:34-39; 20:27-40; & 23:1-24:40.

67. At step 208, after the scheduled time has passed, client 103 contacts core server 101 to notify core server 101 as to whether client 103 did or did not receive the content as scheduled. '376 Patent/Fig. 2; 6:52-55; 9:19-43; & 23:1-24:40. This may further include information regarding the speed and length of transmission or other characteristics of the transmission, such as bandwidth and/or latency performance. '376 Patent/Fig. 2; 6:55-65; 15:17-24; & 23:1-24:40. Alternatively, or in addition, this information may be communicated to core server 101 by node server 102. '376 Patent/Fig. 2; 6:65-67; 21:59-22:12; & 23:1-24:40. This information is then used

by core server 101 to determine whether the transfer was successful, and, if so, whether the owner of node server 102 is to receive the chosen incentive for a transfer. Exhibit A, '376 Patent, Fig. 2; 4:34-47; 9:19-43; 10:3-16; 10:54-67; 13:10-14; & 22:13-24:40.

68. The claimed inventions of the '376 Patent have advantages over conventional systems, including, inter alia, that they allow a user to more reliably request and view specified content from the content provider via the use of the distributed node server architecture. '376 Patent, Figs. 1 & 2; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62. Advantageously, by providing node servers 102 as the intermediary between clients 103 and core server 101, node servers 102 act as a carrier of the data from users to the content provider and vice versa. '376 Patent/10:17-37. This, in turn, requires the unconventional use of distributed third-party-owned node servers 102, including the managing of information related to the capabilities of each node server 102, the content stored therein and its availability. '376 Patent/11:56-13:36. Furthermore, where the network connection between a client 103 and core server 101 is potentially somewhat unreliable and lower bandwidth say over a wireless network, the redirection of client 103 to a more reliable and proximately located node server 102 represents an architectural improvement over conventional, pure server-client systems. In this way, the bandwidth-heavy communications overhead of transmitting high-bandwidth content is performed on a far more reliable network, resulting in much less likelihood a user would get logged off prior to the completed transfer or the connection failing, and, furthermore, a diminished amount of traffic occurs on core server 101, effectively permitting more clients 103 to reliably access specified content. '376 Patent/1:49-56; 2:8-24; 3:61-4:33; 10:24-37; 10:54-58; 13:15-36; 18:24-27; 19:19-22; & 19:66-20:63. Thus, the patented tiered-based server system results in a smoother, more reliable, and better user experience.

69. Including as noted above, the specification of the '376 Patent teaches specifically how the technological improvement of the network content distribution systems and methods of the '376 Patent is achieved. Among other innovations, the inventions are able to provide to means for the content provider's system (for example, core server 101), to communicate with a user's

device (for example, client 103) and determine what content the user is requesting (for example, step 202); determine an available third-party server (for example, node server 102) to identify which of these third-party servers contains the content sought by the user (for example, step 203); send said identity of the third-party server to the user's device (for example, step 204) so that the user's device can contact and connect to the best third-party servers identified by the content provider (for example, step 205) and request the specified content (for example, step 206); and communicate with the user's device and chosen third-party servers to determine that the third-party servers transmitted the content to the user's device (for example, step 207) and that the user's device successfully received the content (for example, step 208). Thus, the invention details how the improved network content distribution systems and methods can be realized and how its functionality can be accomplished. The claims of the '376 Patent recite how to implement these improved network content distribution systems and methods. Furthermore, the claims require a non-conventional and non-generic method in order to allow for the system to distribute the specified content via the use of distributed third-party node servers. Thus, the claimed inventions of the '376 Patent describe an application specific order of steps for use in a system that is not a generic or conventional arrangement.

70. These claimed limitations disclose a particular architecture and way in which the provisioning of specified high-bandwidth content over the Internet can be accomplished from a core server to a client via the use of an intermediary node server which receives an incentive as compensation for storing the content and transmitting the content to any client that requests it, rather than requiring the core server to transfer the content to the client, including the specific way the negotiation and communication between the core server, node servers, and client is accomplished, including to provide a distributed network of third-party-owned node servers providing a more reliable and scalable system and providing a better user experience, including by permitting asynchronous and/or on-demand viewing at the client device – as opposed to using conventional systems and methods to provision content over a network, such as those described in

the '376 Patent and herein. An example of such architecture and functionality is as shown in Figure 1 of the '376 Patent:

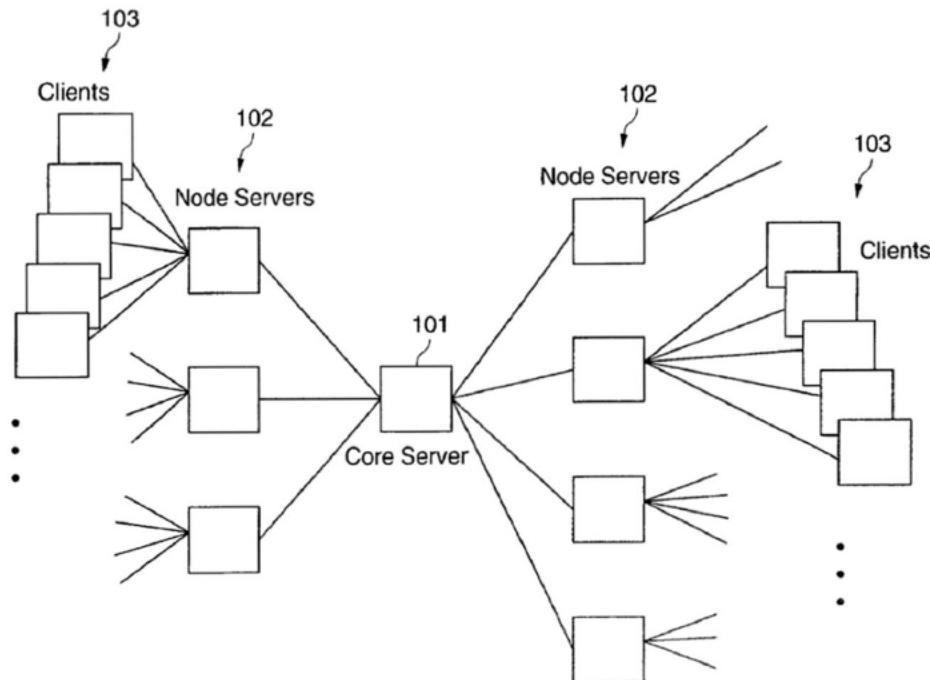


FIG. 1

'376 Patent/Fig. 1; see also 5:5-21; 7:12-8:16; 10:17-23; 10:38-67; & 13:37-62.

71. On the other hand, including as noted herein, the convention at the time of the '376 Patent inventions was to implement one of the three approaches noted above, each of which simply resulted in additional issues being created. This was due to, at least in part, for example, conventional content providers seeking to invest resources in systems which they entirely owned and managed, often looking to the existing television broadcast-based systems or guidance and/or inspiration. Additionally, conventional content providers sought to avoid the hassle of having to depend on third parties to cache copies of content on the third parties' devices. Including as noted, this resulted in users having unreliable access to content and often resulted in the systems of the content providers crashing or otherwise becoming inoperable.

72. Another unconventional and inventive aspect of the claimed inventions of the '376 Patent includes the use of the node servers to deliver content at times other than when the client is

connected to the core server. Exhibit A, '376 Patent/5:38-44; 12:37-13:14; 21:4-43; & 23:1-24:40. In other words, the use of node servers permits client devices to request and view specified content at a time the user selects. '376 Patent/5:38-44; 12:37-13:14; 21:4-43; & 23:1-24:40. Thus, advantageously, the client device is given the identity of a node server or node servers which contain the specific content sought by the user, so that the client device need only connect to the node server or servers to retrieve the content, and the core server is only contacted again during the transfer verification step. In this way, the core server usage is reduced, and, as a result, the use of the content provider's resources is likewise reduced.

73. In turn, this use of node servers for selective delivery, *inter alia*, allows asynchronous and/or on-demand distribution of the content, regardless of the status of the content provider's bandwidth usage and availability, resulting in users being able to view the specified content even when the core server is otherwise inoperable or unreachable. At the time of the '376 Patent inventions, the convention was, including as noted herein, to provide such asynchronous or on-demand experience via physical media that the user was required to locate, such as VHS, CDs, and/or DVDs.

B. The Claims Of The '376 Patent Are Directed To Patentable Subject Matter

74. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

75. Including as set forth herein, the claims of the '376 Patent are directed to patentable subject matter. The claims of the Patent-in-Suit, including the asserted claims, when viewed as a whole, including as an ordered combination, are not merely the recitation of well-understood, routine, or conventional technologies or components. The claimed inventions were not well-known, routine, or conventional at the time of the invention, over ten years ago, and represent specific improvements over the prior art and prior existing systems and methods.

1. The '376 Patent is not Directed to an Abstract Idea

76. The claims of the '376 Patent neither describe nor claim a concept nor a generic method or computerized system. Instead, the '376 Patent claims address, among other things, a

persistent problem with systems for provisioning content over a network at the time of the invention at the time of the invention whereby delivery of content, including high-bandwidth content, to large numbers of client devices asynchronously and/or on-demand in a scalable and reliable manner was unavailable and/or impossible (for example, bandwidth and resource limitations made the ability of a content provider to deliver high-bandwidth content); impractical (for example, requiring content providers to guess traffic loads and requiring large initial investment to meet these loads and/or requiring client devices remain connected for lengthy periods of time using unreliable connections); cumbersome (for example, requiring users browse clunky, confusing hierarchical link systems to find specific content they wish to view); and/or prone to errors (for example, the limited resources made it difficult to deliver content to large numbers of client devices without resulting in system crashes or other errors upon reaching said limits). The '376 Patent inventions enable a substantial improvement in content delivery systems, including their functionality and utility.

77. Prior to the '376 Patent inventions, content that was delivered was typically of low quality in order to reduce data size and, thus, reduce usage of limited bandwidth and other resources. '376 Patent, Col. 1:61-2:2. Such reduced quality video provided a poor user experience, as many videos were very short, low resolution, and/or low frame rate, often resulting in a blurry, unwatchable short clip. '376 Patent, Col. 1:61-2:2. Additionally, and as described herein, this reduced quality content was statically provided, meaning the content was delivered to the client device regardless of whether the user wished to view the content, meaning resources were unnecessarily used in the transfer. '376 Patent, Col. 2:2-4; 4:13-27.

78. Prior to the claimed inventions, conventional systems required substantial resources on the server side of the content provider in order to operate reliably. Further, including as noted herein, the convention at the time was to use only a system wholly owned, distributed, and maintained by the content provider comprising, at best, fully-mirrored server clusters distributed remotely from the central server due to not only limited computing (e.g., memory and processing power) and network (e.g., bandwidth) resources, but also because, as noted above, one could not

be certain that any specific website would contain the specific content sought by the user. Thus, attempts to meet resource requirements meant heavy investment in computing power and bandwidth, each of which was a very expensive proposition at the time. It was far less expensive resource-wise to handle the amount of communications and meet bandwidth requirements by use of distributed servers, especially where those servers were owned by third parties and required the content provider only pay when transfers actually occurred. The specific claimed inventions of the '376 Patent disclose unconventional systems and methods which solve these limitations, including, without limitation, by providing a centralized core server owned by the content provider capable of handling all inbound and outbound connections from client devices requesting content and redirecting them to remotely-located third-party-owned node servers required to be capable of handling only a subset of all inbound and outbound client device connections.

79. These claimed limitations disclose a particular architecture and way in which the provisioning of specified high-bandwidth content over the Internet can be accomplished from a core server to a client via the use of an intermediary node server which receives an incentive as compensation for storing the content and transmitting the content to any client that requests it, rather than requiring the core server to transfer the content to the client, including the specific way the negotiation and communication between the core server, node servers, and client is accomplished, including to provide a distributed network of third-party-owned node servers providing a more reliable and scalable system and providing a better user experience, including by permitting asynchronous and/or on-demand viewing at the client device – as opposed to using conventional systems and methods to provision content over a network, such as those described in the '376 Patent and herein. '376 Patent, Figures. 1 & 2; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62. An example of such architecture and functionality is as shown in Figure 1 of the '376 Patent:

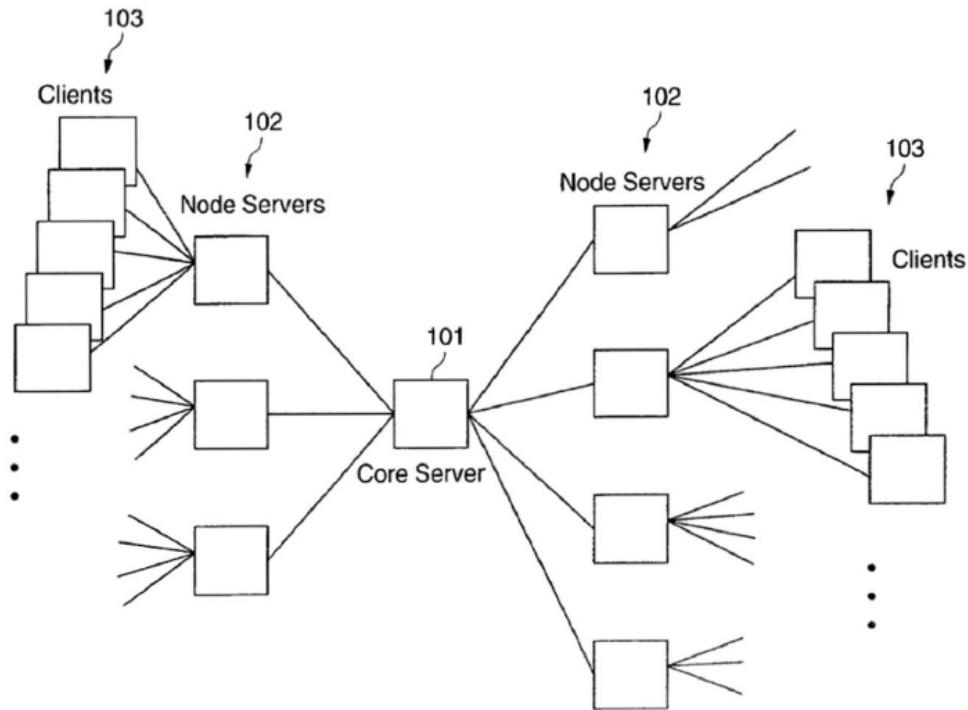


FIG. 1

'376 patent, Fig. 1; see also 5:5-21; 7:12-8:16; 10:17-23; 10:38-67; & 13:37-62.

80. More specifically, the claimed inventions of the '376 Patent provide particular methods and systems for the provision of content over a network that require, for example, "identifying at a core server a network site that will act as a node server for distribution of specified content" and "providing from the core server the specified content to the node server," which specifies the specific way that a node server is provided specific content to be delivered to client devices. '376/Claim 57. The particular methods and systems further require "communicating to the client the identity of a node server having the specified content store thereon, thereby enabling the client to request transmission of the specified content from the node server," which specifies the information exchanged between the devices in order to facilitate the handoff from the core server to the node server and facilitate the transfer of content from the node server to the client device. '376 Patent/Claims 37 & 57. The particular methods and systems also require "ascertaining that the node server transmitted the specified content" and "offer[ing] an incentive as compensation [to an owner of the node server] for transmission of the specified content to the

client,” which serves as a means of ensuring that the handoff was successful and that the transfer actually occurred, including by providing the owner of the node server compensation for retaining the content and/or transferring the content to any client device redirected to the node server. ’376 Patent/Claims 37 & 57. Including as described herein, these claimed limitations disclose a particular way in which the patented node server-based architecture can be implemented, including specific information transmitted between each of the devices and a verification of transfer to ensure a reliable user experience – as opposed to using conventional methods and systems to deliver content, such as those described in the ’376 Patent and herein. ’376 Patent/Figs. 1 & 2; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62.

a. *The Claims of the ’376 Patent are Directed to Innovative Computer and Network-Based Systems and Methods*

81. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

82. None of the elements that comprise the claimed apparatuses, systems, computer readable media, or methods that are described in the claims of the ’376 Patent are abstract. Including as described herein, and in the ’376 Patent, the computer readable storage media, client, core server, node server, and network interfaces (’376 Patent/Figures 1-2 (and associated description in the specification)) are physical and/or tangible things known to a person of ordinary skill in the art (“POSITA”) in light of the specification; and in view of the technological solutions and unconventionality noted herein. ’376 Patent/3:23-60.

82. As exemplified by claim 37, the subject claims of the ’376 Patent are directed to:

[Claim] 37. A computer readable storage medium or media encoded with one or more computer programs including instructions for effecting the provision of content over a network, comprising:

instructions for receiving a request from a client for specified content; instructions for communicating to the client the identity of a node server having the specified content stored thereon, thereby enabling the client to request transmission of the specified content from the node server; and instructions for ascertaining that the node server transmitted the specified

content to the client, wherein an owner of the node server is offered an incentive as compensation for transmission of the specified content to the client.

'376 Patent/Claim 37.

83. As exemplified by claim 57, the subject claims of the '376 Patent are directed to: [Claim] 57. A method for effecting the provision of content over a network, comprising the steps of:
identifying at a core server a network site that will act as a node server for distribution of specified content;
providing from the core server the specified content to the node server;
receiving at the core server a request from a client for the specified content;
communicating from the core server the identity of the node server to the client to enable the client to request transmission of the specified content from the node server; and
ascertaining at the core server that the node server transmitted the specified content to the client, wherein an owner of the node server is offered an incentive as compensation for transmission of the specified content to the client.

'376 Patent/Claim 57.

84. Claims 37 and 57 of the '376 Patent, quoted above, are exemplary. A POSITA would understand that the language of the '376 Patent claims is not directed merely to a method of generically or conventionally provisioning content over a network. Rather, it comprises the specific aspects noted herein which provided the noted inventive, technological solutions to the problems faced by the inventor. Specifically, as noted herein, the claimed inventions provide inventive, unconventional, and technological solutions to the conventional problems of provisioning varying amounts of content of varying sizes to multiple clients asynchronously and/or on-demand in a distributed-server-based system which facilitates the provisioning of content through the distribution of the content from remote node servers which provide the content to clients, thereby spreading the load of the provision of content across multiple networks and servers.

b. *The '376 Claimed Inventions Could not be Done Manually or in One's Head*

85. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

86. A POSITA would understand that the claimed solutions could not be done manually, including because they necessarily require implementation via specialized, or specially

programmed, computers, including one or more networks, a core server, a node server, and, further, including at least communicating the identity of a node server to a client and transmitting the selected content from the node server to the client '376 Patent/Claim 37; Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:47; 5:5-8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40); and providing specified content to an identified node server, communicating the identity of the node server to a client, and transmitting the selected content from the node server to the client '376 Patent/Claim 57; Figs. 1 & 2; Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:47; 5:5-8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40), nor can they be performed in a person's head. Furthermore, for example, the constant open connectivity required for sending and receiving the specified content from the node server at each of the clients is not something that could be done manually or in one's head.

2. The '376 Patent Claimed Inventions Provide Innovative, Unconventional Concepts and Technological Solutions

87. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

88. In sum, including as noted herein, the claimed technologies of the Patent-in-Suit improved, inter alia, prior computer and networking technology, including in connection with, among other things:

- A. Improving and increasing efficiencies of the claimed inventions, including over inferior alternative means for achieving the same or similar ends of distributing content, including by reducing or eliminating the cumbersome steps of previous methods of content transfer over the Internet and providing the ability to transfer the specified content at a time chosen by the user where a connection to the Internet may be more readily available. See, e.g.,

'376 Patent/Figs. 1 & 2; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-23; & 13:37-62.

B. Leveraging the capabilities of already-existing third-party devices, including their Internet connection capabilities (including through use of custom hardware and/or software), including by shifting the transfer of data from the core server to the node servers, to greatly enhance the functionality of content distribution systems, including because the node servers, which may be more proximately located to the client and have additional resources to the core server, may then store the specified content for transfer to the client via the Internet at a later time. *See, e.g.*, '376 Patent, Figures. 1 & 2; 1:49-56; 2:8-24; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-37; 10:54-58; 13:15-62; 18:24-27; & 19:19-22.

C. Providing an incentive-based system to permit the content provider to ensure the specified content was successfully transferred from the node server to the client, including by varying the incentive based on the amount of the content transferred and the quality thereof. *See, e.g.*, '376 Patent/Fig. 2; 4:34-47; 6:52-67; 9:19-43; 10:3-16; 10:54-67; 13:10-14; 15:17-24; & 21:59-24:40.

89. The '376 Patent inventions also provide computer and network efficiency at least because they allow content provisioning systems to have the useful and improved claimed functionality without the need for the content provider to heavily invest in resources, such as bandwidth, hardware, and/or extra software and data processing required on the core server. The inventor did more than simply apply current technology to an existing problem. The inventions, as embodied in the claims of the '376 Patent, were a significant advancement in content provisioning systems and methods. The inventions covered by the claims of the '376 Patent comprise utilization of the Internet to create a novel architecture enabling provision of content, including high-bandwidth content, by node servers in which a third party has already invested to provide resources for quickly, easily, and reliably transferring content to client over the Internet,

and, more specifically, to what is essentially the backbone of what is referred to today as distributed network “streaming.”

90. These noted improvements over the prior art represent meaningful limitations and/or inventive concepts based upon the state of the art over two decades ago. Further, including in view of these specific improvements, the inventions of the claims of the ’376 Patent, when such claims are viewed as a whole and in ordered combination, are not routine, well-understood, conventional, generic, existing, commonly used, well known, previously known, typical, and the like over two decades ago, including because, until the inventions of the claims of the Patent-in-Suit, the claimed inventions were not existing or even considered in the field, and, in fact, went against the conventional methods.

91. The claims of the ’376 Patent, including as a whole and where applicable in ordered combination, comprise, *inter alia*, a non-conventional and non-generic arrangement of communications between node servers and client devices that is a technical improvement to the communications between the devices and content distribution services, including those improvements noted herein.

92. The claimed inventions are necessarily rooted in computer technology, i.e., network content provisioning technology, and comprise improvements over prior technologies in order to overcome the problems, including those noted herein, specifically arising in the realm of computer networks. The claimed solutions amount to an inventive concept for resolving the particular problems and inefficiencies noted herein, including in connection to provisioning content from a content provider to client over the Internet, including as described.

a. The ’376 Claimed Inventions Provide Technological Solutions to Technological Problems

93. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

94. The technical problems addressed by the claimed inventions of '376 Patent include the delivery of content, including high-bandwidth content, to large numbers of client devices asynchronously and/or on-demand in a scalable and reliable manner, which, at the time of the '376 Patent inventions, was difficult, impractical, and/or cumbersome, including because, as noted herein, provisioning content over a network at the time was unavailable and/or impossible (for example, bandwidth and resource limitations made the ability of a content provider to deliver high bandwidth content); impractical (for example, requiring content providers to guess traffic loads and requiring large initial investment to meet these loads and/or requiring client devices remain connected for lengthy periods of time using unreliable connections); cumbersome (for example, requiring users browse clunky, confusing hierarchical link systems to find specific content they wish to view); and/or prone to errors (for example, the limited resources made it difficult to deliver content to large numbers of client devices without resulting in system crashes or other errors upon reaching said limits). Conventional methods further lacked the ability to provide a distributed network of servers from which the user could request and access specified content asynchronously and/or on-demand. Further, physical limitations existed which limited available resources, including bandwidth, storage, and computing power, which could result in the system being unworkable or crashing.

95. An additional problem that existed with conventional systems was the use of fraudulent logs by the owners of content provided by content providers. For example, conventional systems at the time often included the provision of content in the form of advertisement banners throughout a webpage. At the time, there were webpages that would load with a parade of banner advertisements filling up the user's screen, and, each time the advertisement was loaded, the webpage owner would be paid for displaying the advertisement. However, due to the overwhelming nature of webpages with numerous banner advertisements, users would often leave the webpage before all of the advertisements loaded. Thus, to get around this, webpage owners began creating fraudulent logs to indicate the banner advertisements were loaded, but the advertisement providers had no way of verifying this. As a result, advertisement providers were

often forced to pay for views of their content that simply never occurred.

96. Technical solutions provided by the claimed inventions of the '376 Patent to the technical problems faced include the use of a distributed node server architecture wherein the node servers may be added to a vast "army" of third-party servers for use in distributing content to client devices; the identification and maintenance of a list of node servers by the core server and transfer, from the core server to the client device, of the identity of selected, most proximate and/or available node servers which contain the specified content sought by the user; the use of incentives as compensation to the owners of the node servers for the use of their additional resources; and the communication of a successful transfer of the specified content between the identified node server, or node servers, and the client device, including in order to ensure the user was able to receive the content and determine whether the chosen incentive should be given to the owner of the node server by the content provider. '376 Patent/ Figs. 1 & 2; Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:47; 5:5-8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40. Including as noted herein, this, in turn, provides the ability for client devices to be served by node servers with better and/or more available resources and/or that are more closely located to the client, including by employing already-existing node servers owned by third parties which provide specified content to only a subgroup of client devices, thus allowing the core server to act as a traffic director, redirecting client devices to a more local node server with its own bandwidth, hardware, and software used to deliver the content to a client device at the specific time the client device requests the content. '376 Patent/Figs. 1 & 2; 1:49-56; 2:8-24; 3:23- 4:47; 5:5-8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40.

97. The inventions claimed in the '376 Patent further represent specific improvements in the functionality and capabilities of computer networking, databases, video distribution services, and web services and networks, including in regard to network content distribution services, systems, and network databases, including a network location database. The inventions claimed in the '376

Patent, for example, improve the functionality of network database systems, for example, by facilitating or allowing the core server to maintain a list of node servers, and their respective available resources, proximity, availability for use, content stored thereon, and other information, including so that the foregoing information may be used to provide the client device with the identity of the most reliable node server which can provide the specified content sought by the user. '376 Patent/Fig. 2; 5:51-64; 6:11-14; 9:1-19; 16:4-17:38; 18:1-39; & 23:1-24:40.

98. The inventions claimed in the '376 Patent further represent specific improvements in the functionality and capabilities of computer databases, video distribution services, and web services and networks, including in regard to network content distribution services, systems, and network databases, including a network location database. The inventions claimed in the '376 Patent, for example, improve the functionality of video distribution services and network database systems, for example, by facilitating or allowing the core server to audit and/or otherwise verify whether specified content requested by the user was actually transferred between a node server and client, including via the core server communicating with either or both the node server and client to request confirmation of the transfer. '376 Patent/Fig. 2; 4:34-47; 6:52-67; 9:19-43; 10:3-16; 10:54-67; 13:10-14; 15:17-24; & 21:59-24:40. As a result, the content provider is able to limit payment of incentive compensation only to content that has actually been transferred. '376 Patent/Fig. 2; 4:34-47; 6:52-67; 9:19-43; 10:3-16; 10:54-67; 13:10-14; 15:17-24; & 21:59-24:40.

99. Including as described in the '376 Patent, and as noted herein, the claimed inventions include unconventional and inventive technological solutions to the technical problems that existed at the time, including to increasing and/or improving, for example, ease-of-use, functionality, efficiency, and reliability in systems for content distribution over a network and network databases. For example, the claimed inventions of the '376 Patent, including as described herein, provide technical solutions that improve, inter alia, computer and database technology, including for distribution of high-bandwidth content over a network, including by providing a distributed network of third-party-owned node servers providing a more reliable and scalable system and providing a better user experience, including by permitting asynchronous and/or on-

demand viewing at the client device. In this way, the claimed inventions of the '376 Patent reduce the use of the content provider's computing devices (e.g., servers) and resources thereon, including the use of the content provider's and user's network traffic (e.g., bandwidth) – which, including as noted herein, was highly limited at the time of the patented inventions, especially on mobile networks, and often costly and not always available – because the content provider is not required to maintain connections with every client the entire time the specified content is being transferred to the client, including because such transfers are offloaded to the node servers. As noted herein, specifically with respect to home devices and mobile devices, it was often not possible to continually maintain a network connection, especially in view of the potential for the content provider's servers to become unreachable due to crashing or otherwise, resulting in the client device having to attempt to reconnect before the content was fully delivered. The inventions of the '376 Patent provide a technical solution to this problem by offloading the large number of connections from the core server onto a distributed system of node servers, each of which serves only a small portion of the total amount of clients.

b. The '376 Claimed Inventions Provide Unconventional Solutions

100. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

101. Including as noted herein, what was conventional at the time comprised, for example, pure single server-client systems, pure multi-server single-client systems, and singularly-owned distribution systems, which, at best, either caused the data to be so small that it was of poor quality or brute-forced the content by throwing costly bandwidth, hardware, and software at the problem, including as shown in the prior art systems described in the specification, including the cited Kenner reference, and herein. However, including due to limitations on available resources and the lack of consistent, reliable, and scalable systems to provide a reliable user experience, users seeking high-bandwidth content were often simply unable to do so because it was unavailable because content providers simply did not, because they could not, provide it. Further, a user was unable to choose when they viewed the specified content absent some clever, yet burdensome,

methodology of calculating exactly how long the transfer would take, connecting at the exact time necessary so the file would be available when the user wished, and hoping the transfer completed without issue, such as disconnection. By leveraging network and web-based systems, the patented inventions improved upon the conventional methods of distribution of high-bandwidth content over a network, which suffered from the many issues noted herein.

102. Unconventional solutions provided by the claimed inventions of the '376 Patent include the leveraging of the resources, such as bandwidth and computing power and/or storage, of third party-owned computing devices in order to create a distributed network of servers which may store

various content offered by the content provider so that the node servers, rather than the core server, are required to maintain a connection with the client devices for transfer of specified content. Including as set forth in the specification of the '376 Patent, the bandwidth-heavy communications overhead of transmitting high-bandwidth content is performed on a far more reliable network, resulting in much less likelihood a user would get logged off prior to the completed transfer or the connection failing, and, furthermore, a diminished amount of traffic occurs on the core server, effectively permitting more clients to reliably access specified content. '376 Patent/Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:33; 5:5-21; 7:12-8:16; 10:17-37; 10:54-58; 13:15-62; 18:24-27; & 19:19-22.

103. The patented inventions of the '376 Patent further provided unconventional solutions by at least leveraging the use of incentives in order to recruit third parties to provide the use of their resources, such as bandwidth and computing power and/or storage, and ensuring the content was transferred in order to correctly award incentives for successful transfers. '376 Patent/Fig. 2; 4:34-47; 6:52-67; 9:19-43; 10:3-16; 10:54-67; 13:10-14; 15:17-24; & 21:59-24:40. Including as noted herein, and as argued during prosecution of the '376 Patent, it was unconventional to have distributed, server-based and/or network-based systems which were provided via the use of incentives to third parties for the use of already-existing resources, as opposed to the conventional

method of content providers expending both money, including in infrastructure expense and ongoing operation costs, and available resources in order to meet traffic demands.

104. Further, the asserted claims of the '376 Patent claim unconventional systems, computer readable media, and methods which provide a distributed network of third-party-owned node servers providing a more reliable and scalable system and providing a better user experience, including by permitting asynchronous and/or on-demand viewing at the client device – as opposed to using conventional systems and methods to provision content over a network, such as those described in the '376 Patent and herein.

c. **The '376 Claimed Inventions Provide Technological Solutions to Technological Problems**

105. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

106. Consistent with the above discussion, including the problems solved that had been faced by conventional content provisioning systems and provisioning content to clients over a network, and further in consideration of the '376 Patent specification, the prosecution history, and cited prior art, a POSITA would understand that the claimed “[core server] identifying . . . a network site that will act as a node server for distribution of specified content; [to] provid[e] . . . the specified content to the node server; [so that the core server can] . . . receiv[e] . . . a request from a client for specified content; . . . communicat[e] to the client the identity of the node server having the specified content . . . enabling the client to request transmission of the specified content from the node server; and . . . ascertain[] that the node server [has] transmitted the specified to the client, wherein an owner of the node server is offered an incentive as compensation for transmission of the specified content to the client,” including based on the use of a distributed node server architecture, and including in combination with the claims of the '376 Patent, as a whole, is an inventive technological solution, including in view of the benefits and unconventional solutions this involves and contributes to. '376 Patent/Claim 1; Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:47; 5:5-

8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40.

107. For example, using certain technology claimed in the '376 Patent, (for example, the core server and node server in conjunction), it becomes possible to, among other things, provide the node server with content requested by client devices so that client devices may request and obtain specified content from the node server at a more preferential time for the client device, such as during off-peak hours or when the client device has a more stable connection. '376 Patent/Figs. 1 & 2; 1:49-56; 2:8-24; 3:23-4:47; 5:5-8:16; 8:47-50; 8:60-67; 9:1-43; 10:3-11:38; 11:56-14:25; 14:61-64; 15:17-24; 16:4-17:38; 17:49-67; 18:1-39; & 18:54-24:40.

108. The '376 Patent claimed inventions comprise inventive improvements over prior technologies in order to overcome problems, including those technical problems noted herein, related to computer networks, content distribution, and database management (for example, related to content providers) including in combination with the provision of high-bandwidth content over the Internet from a content provider to many clients, the ability to provide clients with multiple pieces of content, and the ability to access and communicate with the user's client device at various times, including in order to distribute content at a time chosen by the user, including via a network which is accessible via a web browser or similar functionality. For example, the claimed inventions provide inventive solutions related to the conventional issues and inefficiencies (for example, as described herein) that were related to distributing large amounts of content and/or content to large numbers of clients (for example, high-bandwidth content from content providers) over a network, such as the Internet, via the use of third-party-owned, distributed node servers, including storing and/or maintaining relevant characteristics regarding the node servers (for example, bandwidth, resources, proximity to a client, etc.) in a node server database and which may be accessible via a network (for example, the Internet) such as through a web server. Further, the use of the feedback compensation system provides the content provider a means of ensuring the content was successfully received by the client, avoiding the issue of conventional systems where false transfer logs resulted in content providers paying for transfers that never actually occurred.

109. The '376 Patent inventions further provide inventive improvements in network, including distributed content network, architecture, including because the unconventional multi-server-server-client architecture and shifting of communications and workload from a centralized server to a distributed node server system improve over the conventional, proprietary singular server-client architecture. Including as noted herein, in doing so, the claimed inventions reduce the workload of the content provider's servers and use of the content provider's limited resources by providing for various tasks to be run and take place on the distributed node servers, which act as intermediaries. Specifically, a POSITA would understand that the avoidance of overloading the available resources of the content provider, including by offloading onto a tiered architecture of node servers, was inventive and serves as an improvement in network, including distributed content network, architecture. Further, the use of an incentive to aid in recruiting additional third parties to provide the user of the already-existing resources was inventive. Further, the use of a feedback notice informing the core server that the node server successfully transferred the entirety of the specified content, including so that the owner of the node server was properly provided the chosen incentive, was inventive and serves as an improvement in network, including distributed content network, architecture.

3. The Claims of the Patent-in-Suit do not Unreasonably Preempt their Respective Fields

110. Plaintiff refers to and incorporates the allegations in the above paragraphs as if set forth fully herein.

111. Including as noted herein, the '376 Patent does not claim merely the abstract idea of "provisioning content over a network" that provides no inventive concept. Instead, the '376 Patent claim specific methods and systems for provisioning specifically selected content, including from a node server containing the specific content selected by the client, including via a core server receiving a request from a client to view specific content and directing the client to connect to a specific node server containing that content so that the client may receive the content from the

node server, and determining that the selected node server has transmitted the selected content to the client where infringement of the patent claims can be readily avoided while still practicing any alleged abstract idea, given that the patent claims do not purely read on any alleged abstract idea. Indeed, the claims of the '376 Patent do not provision content as in the prior art, but, instead, provision content by a core server providing the content to distributed node servers to provision to clients as discussed extensively herein. For example, "provisioning content over a network" may be practiced outside of the limited scope of the patent claims at least by:

- A. The use of a system such as that described in the Kenner reference (U.S. Patent No. 5,956,716), cited by the patent examiner;
- B. The use of a system such as that described in the Guenthner reference (U.S. Patent No. 6,135,588), cited by the patent examiner;
- C. The use of distributed core servers;
- D. The use of a system which permits a client to download content over time and/or in the background and view the content at a later time;
- E. The use of a content capturing device located within the client as the content is provisioned;
- F. The use of pre-loaded client devices a user may obtain and view the content; and/or
- G. The use of a system which staggers the provisioning to clients in an ordered queue.

112. The claims of the '376 Patent were all properly issued, and are valid and enforceable for the respective terms of their statutory life through expiration, and are enforceable for purposes of seeking damages for past infringement even post-expiration. *See, e.g., Genetics Institute, LLC v. Novartis Vaccines and Diagnostics, Inc.*, 655 F.3d 1291, 1299 (Fed. Cir. 2011) ("[A]n expired patent is not viewed as having 'never existed.' Much to the contrary, a patent does have value beyond its expiration date. For example, an expired patent may form the basis of an

action for past damages subject to the six-year limitation under 35 U.S.C. § 286”)(internal citations omitted).

113. After giving full proper credit to the prior art and having conducted a thorough search for all relevant art and having fully considered the most relevant art known at the time, the United States Patent Examiner allowed all of the claims of the ’376 Patent to issue. In so doing, it is presumed that the Examiner used his knowledge of the art when examining the claims. *K/S Himpp v. Hear-Wear Techs., LLC*, 751 F.3d 1362, 1369 (Fed. Cir. 2014). It is further presumed that the Examiner had experience in the field of the invention, and that the Examiner properly acted in accordance with a person of ordinary skill. *In re Sang Su Lee*, 277 F.3d 1338, 1345 (Fed. Cir. 2002). In view of the foregoing, the claims of the ’376 Patent are novel and non-obvious, including over all non-cited art which is merely cumulative with the referenced and cited prior art. Likewise, the claims of the ’376 Patent are novel and non-obvious, including over all non-cited contemporaneous state of the art systems and methods, all of which would have been known to a person of ordinary skill in the art, and which were therefore presumptively also known and considered by the Examiner.

114. The claims of the ’376 Patent were all properly issued, and are valid and enforceable for the respective terms of their statutory life through expiration, and are enforceable for purposes of seeking damages for past infringement even post-expiration. See, e.g., *Genetics Institute, LLC v. Novartis Vaccines and Diagnostics, Inc.*, 655 F.3d 1291, 1299 (Fed. Cir. 2011) (“[A]n expired patent is not viewed as having ‘never existed.’ Much to the contrary, a patent does have value beyond its expiration date. For example, an expired patent may form the basis of an

action for past damages subject to the six-year limitation under 35 U.S.C. § 286") (internal citations omitted).

115. The nominal expiration date for the claims of the '376 Patent is no earlier than August 8, 2024.

COUNT I

Infringement of United States Patent No. 7,650,376

116. Plaintiff refers to and incorporates the allegations in Paragraphs above, the same as if set forth herein.

117. This cause of action arises under the patent laws of the United States and, in particular under 35 U.S.C. §§ 271, *et seq.*

118. Defendant has knowledge of its infringement of the '376 Patent (**Exhibit B**), at least as of the service of the present complaint.

119. Accordingly, Defendant has infringed and continues to infringe, the '376 Patent in violation of 35 U.S.C. § 271. Upon information and belief, Defendant has infringed and continues to infringe one or more claims, including at least Claim 1, of the '376 Patent by making, using, importing, selling, and/or offering for sale, as identified in the Claim Chart attached hereto as **Exhibit B**.

120. Defendant also has and continues to directly infringe, literally or under the doctrine of equivalents, one or more claims, including at least Claim 1, of the '195 Patent, by having its employees internally test and use the Accused Instrumentalities.

121. The service of this Complaint, in conjunction with the attached Claim Chart (**Exhibit B**) and references cited, constitutes actual knowledge of infringement as alleged here.

122. **Exhibit B** includes at least one chart comparing the exemplary claim 1 of the '376 Patent to exemplary Accused Instrumentalities. As set forth in this chart, the Accused Instrumentalities practice the technology claimed by the '376 Patent. Accordingly, the Accused

Instrumentalities incorporated in this chart satisfy all elements of exemplary claim 1 of the '376 Patent.

123. Plaintiff therefore incorporates by reference in its allegations herein the claim chart of **Exhibit B**.

124. Plaintiff is entitled to recover damages adequate to compensate for Defendant's infringement.

125. Defendant's actions complained of herein will continue unless Defendant is enjoined by this Court.

126. The '376 Patent is valid, enforceable, and was duly issued in full compliance with Title 35 of the United States Code.

127. By engaging in the conduct described herein, Defendant has injured Plaintiff and is liable for infringement of the '376 Patent, pursuant to 35 U.S.C. § 271.

128. Defendant has committed these acts of literal infringement, or infringement under the doctrine of equivalents of the '376 Patent, without license or authorization.

129. As a result of Defendant's infringement of the '376 Patent, injured Plaintiff has suffered monetary damages and is entitled to a monetary judgment in an amount adequate to compensate for Defendant's past infringement, together with interests and costs.

130. Plaintiff is in compliance with 35 U.S.C. § 287.

131. As such, Plaintiff is entitled to compensation for any continuing and/or future infringement of the '376 Patent up until the date that Defendant ceases its infringing activities.

DEMAND FOR JURY TRIAL

132. Plaintiff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable by right.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff asks the Court to:

(a) Enter judgment for Plaintiff on this Complaint on all cases of action asserted herein;

- (b) Enter an Order enjoining Defendant, its agents, officers, servants, employees, attorneys, and all persons in active concert or participation with Defendant who receives notice of the order from further infringement of Patents (or, in the alternative, awarding Plaintiff running royalty from the time judgment going forward);
- (c) Award Plaintiff damages resulting from Defendants infringement in accordance with 35 U.S.C. § 284;
- (d) Award Plaintiff such further relief to which the Court finds Plaintiff entitled under law or equity.

Dated: July 24, 2024

Respectfully Submitted,

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